



GEOLOGIC MAP OF THE FALLBROOK 7.5' QUADRANGLE SAN DIEGO AND RIVERSIDE COUNTIES, CALIFORNIA: A DIGITAL DATABASE VERSION 1.0

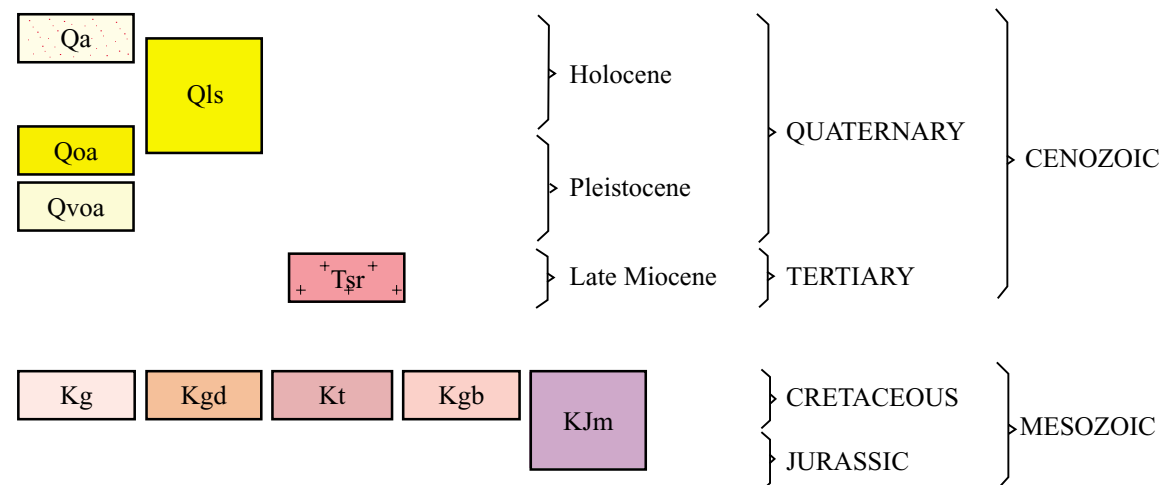
By
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Digital Database
by
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2000

1. California Division of Mines and Geology, Los Angeles, CA
2. U. S. Geological Survey, Riverside, CA



CORRELATION OF MAP UNITS



MAP SYMBOLS

- Contact between map units; generally approximately located or inferred.
- Fault; approximately located or inferred.
- Landslide; arrows indicate principal direction of movement.

EXPLANATION OF MAP UNITS

MODERN SURFICIAL DEPOSITS - Sediment that has been recently transported and deposited in channels and washes, on surfaces of alluvial fans and alluvial plains, and on hillslopes and in artificial fills. Soil-profile development is non-existent. Includes:

- Qa** Active alluvial flood plain deposits (late Holocene) - Unconsolidated to locally poorly consolidated sand and gravel deposits in active alluvial flood plains.
- Qls** Landslide deposits (Holocene to Pleistocene) - Landslide slump and rock fall deposits.

OLD SURFICIAL DEPOSITS - Sedimentary units that are moderately consolidated and slightly to moderately well dissected. Older surficial deposits have upper surfaces that are capped by moderately to well-developed pedogenic soils. Includes:

- Qoa** Older alluvial flood plain deposits (Pleistocene, younger than 500,000 years) - Mostly moderately well consolidated, poorly sorted, permeable flood plain deposits.

VERY OLD SURFICIAL DEPOSITS - Sediments that are slightly to well consolidated to indurated, and moderately to well dissected. Upper surfaces are capped by moderate to well developed pedogenic soils. Includes:

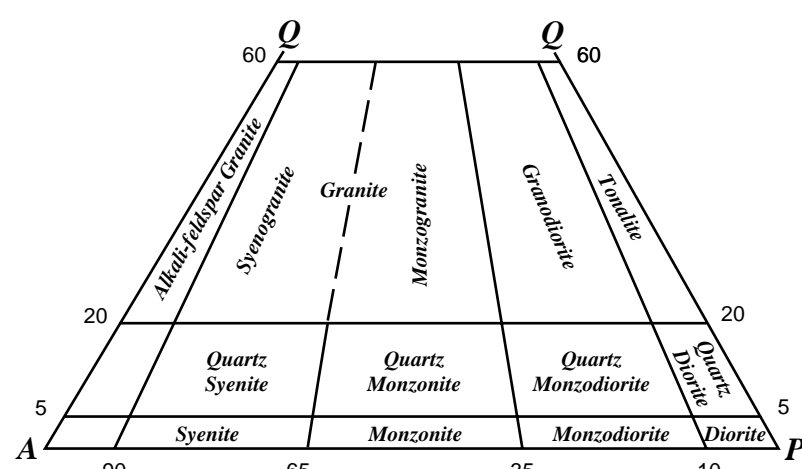
- Qvoa** Very old alluvial flood plain deposits (early Pleistocene) - Mostly well-indurated, poorly sorted, semi-permeable clay and sand flood plain deposits.

BEDROCK UNITS

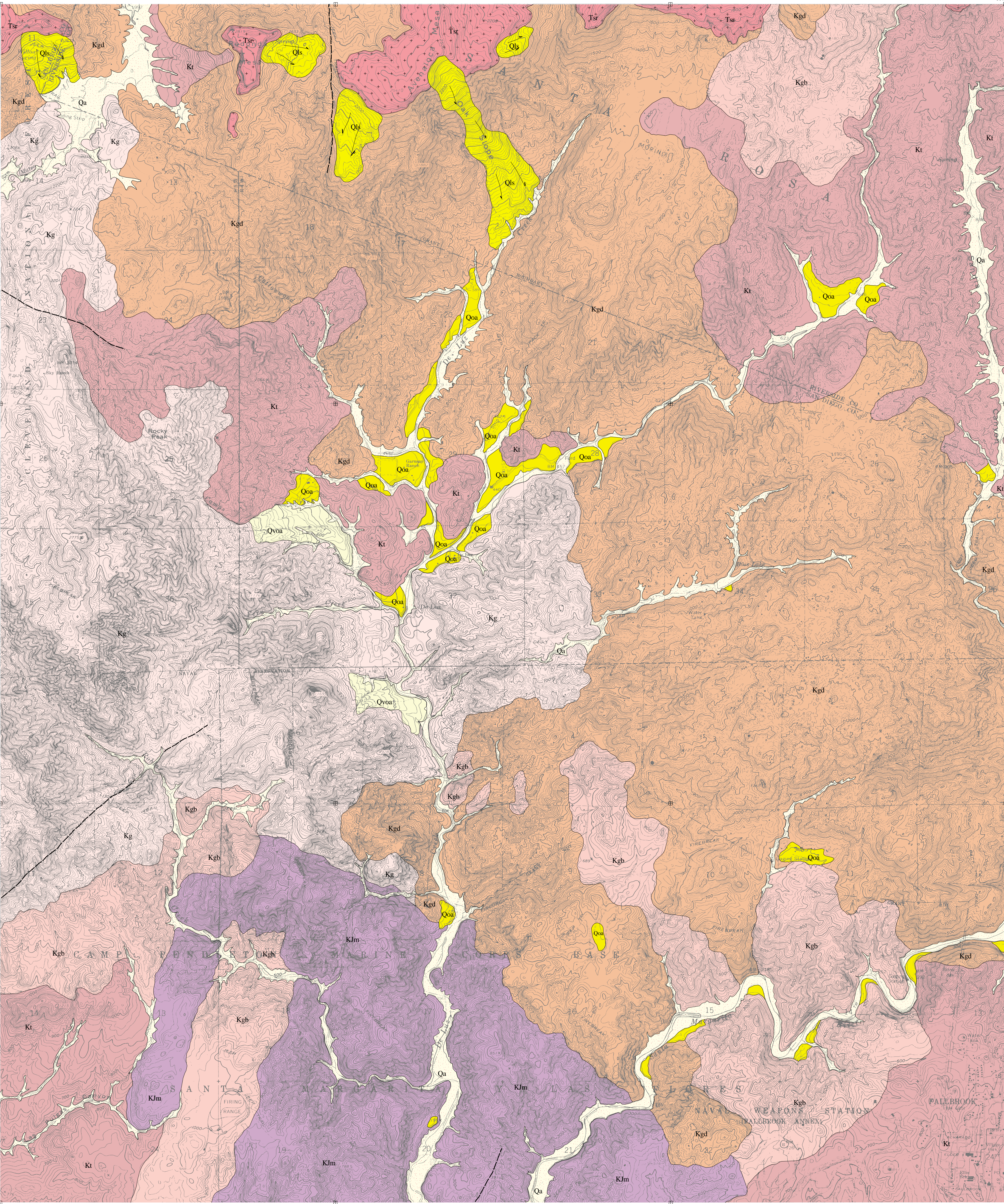
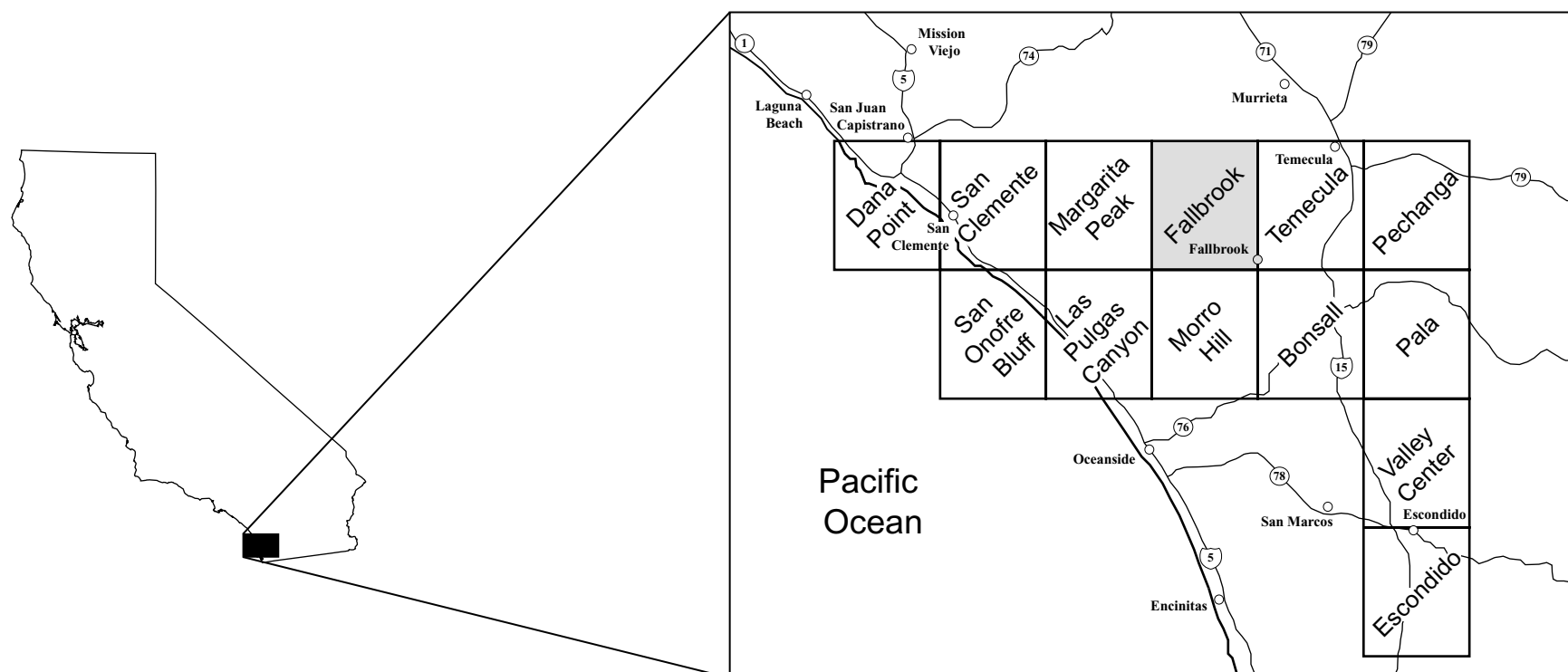
- Tsr** Santa Rosa Basalt (Miocene) - Dark-gray and black, fine-grained basalt.
- Kg** Granite undivided (Cretaceous) - Mostly leucocratic granite; coarse to medium grained.
- Kgd** Granodiorite undivided (Cretaceous) - Mostly hornblende-biotite granodiorite; coarse to medium grained.
- Kt** Tonalite undivided (Cretaceous) - Mostly hornblende-biotite tonalite; coarse grained, light gray.
- Kgb** Gabbro undivided (Cretaceous) - Mostly biotite-hornblende-hypersthene gabbro; coarse grained, dark gray, massive.
- KJm** Metavolcanic and metasedimentary rocks undivided (Cretaceous and Jurassic) - Low grade (greenschist facies) rocks that are in part coeval with and in part older than the Cretaceous plutonic rocks they lie in contact with.

REFERENCES

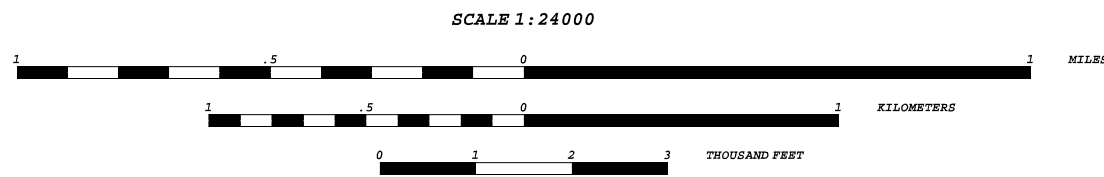
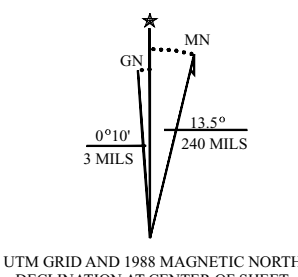
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Classification of plutonic rock types (from IUGA, 1973, and *Streckeisen, 1973).
A, alkali feldspar; P, plagioclase feldspar; Q, quartz.
*Streckeisen, A.L., 1973. Plutonic rocks—Classification and nomenclature by the IUGA Subcommission on Systematics of Igneous Rocks: Geotitles, vol.18, p.26-30.



Topographic base by U.S. Geological Survey
7.5' Fallbrook Quadrangle
Polyconic projection, contour interval 20 feet,
dotted lines 10 feet.



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